

## Gregory, Bernarr

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**From:** PLUS  
**Sent:** Thursday, February 10, 2005 2:07 PM  
**To:** Gregory, Bernarr  
**Subject:** PLUS Results for 10829184

Here are the PLUS search results for 10829184.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to [PLUS@uspto.gov](mailto:PLUS@uspto.gov).



10829184\_QUAL.txt



10829184\_LIST.txt



10829184\_WEST.txt



10829184\_EAST.txt



10829184.east



10829184\_CLS.txt



10829184\_CLSTITLES.t

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10829184\_WDS.txt

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PLUS Search Results for S/N 10829184, Searched February 10, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search

system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are

most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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10829184\_CLS

Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10829184 on February 10, 2005

Original Classifications

19	342/457
15	701/213
11	342/357.1
10	701/207
9	342/357.07
8	340/988
8	342/357.03
8	342/357.08
7	342/357.06
7	342/357.09
7	455/456.2
7	455/456.3
7	701/211
6	342/357.12
5	340/825.49
4	342/357.13
4	342/357.14
4	455/404.2
4	701/200
4	701/208
4	701/216
3	342/357.02
3	455/456.5
3	455/502
3	701/210
3	701/215
2	73/178R
2	340/438
2	340/539.13
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2	340/905
2	340/961
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2	342/357.16
2	343/713
2	370/316
2	370/346
2	701/201
2	701/209
2	701/214
2	701/50
2	702/166
2	704/260

## Cross-Reference Classifications

46 701/213  
35 342/457  
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19 701/207  
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13 342/357.06  
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10829184\_CLS

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Combined Classifications

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14 342/357.08  
14 342/357.13

11 342/357.03  
11 342/463  
11 455/404.2  
10 340/539.13  
10 455/12.1  
10 701/214  
9 342/357.14  
9 455/456.2  
9 455/457  
9 701/209  
9 701/216  
9 701/300  
8 73/178R  
8 340/539.1  
8 340/905  
8 342/357.12  
8 455/456.5  
8 701/215  
8 701/220  
7 340/426.28  
7 340/995.1  
7 342/450  
7 455/456.1  
7 455/456.3  
7 701/210  
6 340/426.2  
6 340/989  
6 340/995.14  
6 342/357.01  
6 455/517  
6 455/524  
6 701/117  
6 701/50  
5 340/426.19  
5 340/825.36  
5 342/357.02  
5 701/301  
4 340/438  
4 340/573.1  
4 340/991  
4 340/995.13  
4 340/995.23  
4 340/995.26  
4 340/995.28  
4 342/352  
4 342/358  
4 342/419  
4 343/700MS

4 375/356  
4 379/37  
4 455/440  
4 455/521  
4 701/201  
4 701/212  
4 701/35  
3 340/426.18  
3 340/961  
3 340/995.18  
3 342/357.11  
3 342/357.16  
3 342/357.17  
3 455/456.6  
3 455/502  
3 701/1  
3 701/14  
3 701/202  
2 128/903  
2 180/287  
2 244/171  
2 307/10.1  
2 340/10.1  
2 340/10.2  
2 340/10.31  
2 340/10.41  
2 340/436  
2 340/5.61  
2 340/573.3  
2 340/573.4  
2 340/7.21  
2 340/7.43  
2 340/7.5  
2 340/903  
2 340/933  
2 340/979  
2 340/992  
2 340/993  
2 340/995.19  
2 340/995.2  
2 340/995.21  
2 340/995.24  
2 340/995.27  
2 342/118  
2 342/29  
2 342/357.05  
2 342/363  
2 342/386

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2 342/451  
2 342/462  
2 342/465  
2 343/713  
2 343/725  
2 348/116  
2 361/814  
2 370/316  
2 370/324  
2 370/335  
2 370/346  
2 375/376  
2 379/45  
2 380/258  
2 396/310  
2 455/11.1  
2 455/13.2  
2 455/439  
2 455/445  
2 455/454  
2 455/522  
2 455/560  
2 455/563  
2 455/575.9  
2 607/30  
2 700/3  
2 701/120  
2 701/217  
2 701/221  
2 701/222  
2 701/24  
2 701/29  
2 702/166  
2 704/260  
2 704/270

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Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10829184 on February 10, 2005

61	701/213	(15 OR, 46 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/207	.Employing position determining equipment
	701/213	..Using Global Positioning System (GPS)
54	342/457	(19 OR, 35 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/350	DIRECTIVE
	342/450	.Position indicating (e.g., triangulation)
	342/457	..Land vehicle location (e.g., bus, police car)
32	340/988	(8 OR, 24 XR)
	Class 340 :	COMMUNICATIONS: ELECTRICAL
	340/988	VEHICLE POSITION INDICATION
29	340/990	(2 OR, 27 XR)
	Class 340 :	COMMUNICATIONS: ELECTRICAL
	340/988	VEHICLE POSITION INDICATION
	340/989	.At remote location
	340/990	...With map display
29	701/207	(10 OR, 19 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/207	.Employing position determining equipment
21	701/208	(4 OR, 17 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/207	.Employing position determining equipment
	701/208	..For use in a map data base system
20	342/357.06	(7 OR, 13 XR)
	Class 342 :	COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES
	342/350	DIRECTIVE
	342/352	.Including a satellite

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342/357.01      ..With position indicating  
342/357.06      ...Using Global Positioning Satellite (GPS or  
                    Glonass)

17 340/825.49      (5 OR, 12 XR)  
Class 340 : COMMUNICATIONS: ELECTRICAL  
340/825            SELECTIVE  
340/825.36        .Having indication or alarm (e.g., location  
                    indication)  
340/825.49        ..Location indication

17 342/357.09      (7 OR, 10 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                    AND DEVICES  
342/350            DIRECTIVE  
342/352            .Including a satellite  
342/357.01        ..With position indicating  
342/357.06        ...Using Global Positioning Satellite (GPS or  
                    Glonass)  
342/357.09        ....With transmission of location-indicative  
                    information to or from a remote station

17 342/357.1        (11 OR, 6 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                    AND DEVICES  
342/350            DIRECTIVE  
342/352            .Including a satellite  
342/357.01        ..With position indicating  
342/357.06        ...Using Global Positioning Satellite (GPS or  
                    Glonass)  
342/357.1        ....Combined with telecommunication

16 701/211          (7 OR, 9 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
                    RELATIVE LOCATION  
701/200            NAVIGATION  
701/207            .Employing position determining equipment  
701/208            ..For use in a map data base system  
701/211            ...Having audio or visual route guidance

15 342/357.07      (9 OR, 6 XR)  
Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                    AND DEVICES  
342/350            DIRECTIVE  
342/352            .Including a satellite  
342/357.01        ..With position indicating  
342/357.06        ...Using Global Positioning Satellite (GPS or  
                    Glonass)

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342/357.07 ....Tracking or monitoring (i.e., lost or  
stolen vehicles)

15 701/200 (4 OR, 11 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/200 NAVIGATION

14 342/357.08 (8 OR, 6 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)

342/357.08 ....Determining relative position (e.g.,  
distance or direction)

14 342/357.13 (4 OR, 10 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)

342/357.13 ....With storage device (i.e., map or database  
)

11 342/357.03 (8 OR, 3 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.02 ...With accuracy enhancing

342/357.03 ....Using differential correction

11 342/463 (1 OR, 10 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/450 .Position indicating (e.g., triangulation)

342/463 ..Having plural transmitters or receivers

11 455/404.2 (4 OR, 7 XR)

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Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/404.1 .Emergency or alarm communication

455/404.2 ..Location monitoring

10 340/539.13 (2 OR, 8 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/500 CONDITION RESPONSIVE INDICATING SYSTEM

340/531 .With particular coupling link

340/539.1 ..Radio

340/539.11 ...Including personal portable device

340/539.13 ....Tracking location (e.g., GPS, etc.)

10 455/12.1 (0 OR, 10 XR)

Class 455 : TELECOMMUNICATIONS

455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,  
RETRANSMISSION OF SAME INFORMATION)

455/11.1 .Portable or mobile repeater

455/12.1 ..Space satellite

10 701/214 (2 OR, 8 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION

701/200 NAVIGATION

701/207 .Employing position determining equipment

701/213 ..Using Global Positioning System (GPS)

701/214 ...Means to improve accuracy of position or  
location

9 342/357.14 (4 OR, 5 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/352 .Including a satellite

342/357.01 ..With position indicating

342/357.06 ...Using Global Positioning Satellite (GPS or  
Glonass)

342/357.14 ....Combined with secondary navigation system  
(i.e., LORAN, gyroscope, inertial, dead rec  
koning, etc.)

9 455/456.2 (7 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 .Zoned or cellular telephone system

455/456.1 ..Location monitoring

455/456.2 ...Based on request signal

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- 9 455/457 (1 OR, 8 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/403 RADIOTELEPHONE SYSTEM  
 455/422.1 .Zoned or cellular telephone system  
 455/456.1 ..Location monitoring  
 455/457 ...Location display
- 9 701/209 (2 OR, 7 XR)  
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION  
 701/200 NAVIGATION  
 701/207 .Employing position determining equipment  
 701/208 ..For use in a map data base system  
 701/209 ...Including route searching or determining  
 device
- 9 701/216 (4 OR, 5 XR)  
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION  
 701/200 NAVIGATION  
 701/207 .Employing position determining equipment  
 701/213 ..Using Global Positioning System (GPS)  
 701/214 ...Means to improve accuracy of position or  
 location  
 701/216 ....Having an self-contained position computin
- g means (e.g., dead reckoning)
- 9 701/300 (1 OR, 8 XR)  
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION  
 701/300 RELATIVE LOCATION
- 8 73/178R (2 OR, 6 XR)  
 Class 073 : MEASURING AND TESTING  
 73/178R NAVIGATION
- 8 340/539.1 (0 OR, 8 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
 340/531 .With particular coupling link  
 340/539.1 ..Radio
- 8 340/905 (2 OR, 6 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/901 EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

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ALARM

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- 340/905 Highway information (e.g., weather, speed limits, etc.)
- 8 342/357.12 (6 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES  
 342/350 DIRECTIVE  
 342/352 .Including a satellite  
 342/357.01 ..With position indicating  
 342/357.06 ...Using Global Positioning Satellite (GPS or Glonass)  
 342/357.12 ....GPS receiver signal processing
- 8 455/456.5 (3 OR, 5 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/403 RADIOTELEPHONE SYSTEM  
 455/422.1 .Zoned or cellular telephone system  
 455/456.1 ..Location monitoring  
 455/456.5 ...At system equipment (i.e., base station)
- 8 701/215 (3 OR, 5 XR)  
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION  
 701/200 NAVIGATION  
 701/207 .Employing position determining equipment  
 701/213 ..Using Global Positioning System (GPS)  
 701/214 ...Means to improve accuracy of position or location  
 701/215 ....Having multiple GPS antennas or receivers (e.g., differential GPS)
- 8 701/220 (1 OR, 7 XR)  
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION  
 701/200 NAVIGATION  
 701/207 .Employing position determining equipment  
 701/220 ..Using inertial sensor
- 7 340/426.28 (0 OR, 7 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS  
 340/426.1 .Of burglary or unauthorized use  
 340/426.24 ..Including specified sensor  
 340/426.28 ...Door or lock
- 7 340/995.1 (1 OR, 6 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION

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340/995.1 .Map display

7 342/450 (0 OR, 7 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/350 DIRECTIVE  
 342/450 .Position indicating (e.g., triangulation)

7 455/456.1 (1 OR, 6 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/403 RADIOTELEPHONE SYSTEM  
 455/422.1 .Zoned or cellular telephone system  
 455/456.1 ..Location monitoring

7 455/456.3 (7 OR, 0 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/403 RADIOTELEPHONE SYSTEM  
 455/422.1 .Zoned or cellular telephone system  
 455/456.1 ..Location monitoring  
 455/456.3 ...Position based personal service

7 701/210 (3 OR, 4 XR)  
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION  
 701/200 NAVIGATION  
 701/207 .Employing position determining equipment  
 701/208 ..For use in a map data base system  
 701/209 ...Including route searching or determining  
 device  
 701/210 ....Route correction, modification, or  
 verification

6 340/426.2 (0 OR, 6 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS  
 340/426.1 .Of burglary or unauthorized use  
 340/426.18 ..Remote alarm  
 340/426.2 ...Cellular

6 340/989 (1 OR, 5 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/989 .At remote location

6 340/995.14 (1 OR, 5 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/995.1 .Map display

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340/995.14 ..Manipulation of map display or data

6 342/357.01 (1 OR, 5 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/352 ..Including a satellite

342/357.01 ..With position indicating

6 455/517 (0 OR, 6 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/500 .Plural transmitters or receivers (i.e., more  
than two stations)

455/507 ..Central station (e.g., master, etc.)

455/517 ...To or from mobile station

6 455/524 (0 OR, 6 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/500 .Plural transmitters or receivers (i.e., more  
than two stations)

455/507 ..Central station (e.g., master, etc.)

455/517 ...To or from mobile station

455/524 ....Multiple base stations

6 701/117 (1 OR, 5 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION

701/117 .Traffic analysis or control of surface vehicl

e

6 701/50 (2 OR, 4 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION

701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION

701/50 .Construction or agricultural-type vehicle  
(e.g., crane, forklift)

5 340/426.19 (0 OR, 5 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/425.5 LAND VEHICLE ALARMS OR INDICATORS

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340/426.1 .Of burglary or unauthorized use  
 340/426.18 ..Remote alarm  
 340/426.19 ...Using GPS (i.e., location)

5 340/825.36 (0 OR, 5 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/825 SELECTIVE  
 340/825.36 .Having indication or alarm (e.g., location indication)

5 342/357.02 (3 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS AND DEVICES  
 342/350 DIRECTIVE  
 342/352 .Including a satellite  
 342/357.01 ..With position indicating  
 342/357.02 ...With accuracy enhancing

5 701/301 (0 OR, 5 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION  
 701/300 RELATIVE LOCATION  
 701/301 .Collision avoidance

4 340/438 (2 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS  
 340/438 .Internal alarm or indicator responsive to a condition of the vehicle

4 340/573.1 (2 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
 340/540 .Specific condition  
 340/573.1 ..Human or animal

4 340/991 (1 OR, 3 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/989 .At remote location  
 340/991 ..Position indication transmitted by vehicle after receipt of information from local station

tion

4 340/995.13 (1 OR, 3 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/995.1 .Map display

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- 340/995.12 ..Transmission of map data to vehicle  
 340/995.13 ...Traffic information
- 4 340/995.23 (0 OR, 4 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/995.1 .Map display  
 340/995.19 ..Route determination and display on map  
 340/995.2 ...Intersection turn guidance  
 340/995.21 ....Off course, route re-search  
 340/995.23 .....Specifying particular start/destination
- 4 340/995.26 (1 OR, 3 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/995.1 .Map display  
 340/995.26 ..Including particular display structure (e.g.  
    detachable, rolling map sheet, etc.)
- 4 340/995.28 (0 OR, 4 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/995.1 .Map display  
 340/995.28 ..Including particular position/direction  
    sensor
- 4 342/352 (1 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
    AND DEVICES  
 342/350 DIRECTIVE  
 342/352 .Including a satellite
- 4 342/358 (0 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
    AND DEVICES  
 342/350 DIRECTIVE  
 342/352 .Including a satellite  
 342/358 ..With satellite signal correction
- 4 342/419 (0 OR, 4 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
    AND DEVICES  
 342/350 DIRECTIVE  
 342/385 .Beacon or receiver  
 342/417 ..Direction-finding receiver only  
 342/419 ...Portable

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- 4 343/700MS (0 OR, 4 XR)  
     Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
     343/700R ANTENNAS  
     343/700MS .Microstrip
- 4 375/356 (1 OR, 3 XR)  
     Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
     375/354 SYNCHRONIZERS  
     375/356 .Network synchronizing more than two stations
- 4 379/37 (0 OR, 4 XR)  
     Class 379 : TELEPHONIC COMMUNICATIONS  
     379/37 EMERGENCY OR ALARM COMMUNICATIONS (E.G.,  
             WATCHMAN'S CIRCUIT)
- 4 455/440 (0 OR, 4 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/403 RADIOTELEPHONE SYSTEM  
     455/422.1 .Zoned or cellular telephone system  
     455/436 ..Handoff  
     455/440 ...Based upon unit location
- 4 455/521 (1 OR, 3 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS  
  
     455/500 .Plural transmitters or receivers (i.e., more  
             than two stations)  
     455/507 ..Central station (e.g., master, etc.)  
     455/517 ...To or from mobile station  
     455/521 ....Emergency dispatch or response
- 4 701/201 (2 OR, 2 XR)  
     Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
             RELATIVE LOCATION  
     701/200 NAVIGATION  
     701/201 .Determination of travel data based on the  
             start point and destination point
- 4 701/212 (0 OR, 4 XR)  
     Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
             RELATIVE LOCATION  
     701/200 NAVIGATION  
     701/207 .Employing position determining equipment  
     701/208 ..For use in a map data base system  
     701/212 ...Having variable map scale

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- 4 701/35 (0 OR, 4 XR)  
 Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
 RELATIVE LOCATION  
 701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
 INDICATION  
 701/29 .Vehicle diagnosis or maintenance indication  
 701/35 ..With data recording device
- 3 340/426.18 (1 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/425.5 LAND VEHICLE ALARMS OR INDICATORS  
 340/426.1 .Of burglary or unauthorized use  
 340/426.18 ..Remote alarm
- 3 340/961 (2 OR, 1 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/945 AIRCRAFT ALARM OR INDICATING SYSTEMS  
 340/961 .Potential collision with other aircraft
- 3 340/995.18 (0 OR, 3 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/995.1 .Map display  
 340/995.14 ..Manipulation of map display or data  
 340/995.18 ...Particular data storage
- 3 342/357.11 (1 OR, 2 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/350 DIRECTIVE  
 342/352 .Including a satellite  
 342/357.01 ..With position indicating  
 342/357.06 ...Using Global Positioning Satellite (GPS or  
 Glonass)  
 342/357.11 ....Attitude determination
- 3 342/357.16 (2 OR, 1 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/350 DIRECTIVE  
 342/352 .Including a satellite  
 342/357.01 ..With position indicating  
 342/357.16 ...Using low Earth orbit (telecommunication)  
 satellites
- 3 342/357.17 (0 OR, 3 XR)  
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES

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	342/350	DIRECTIVE
	342/352	.Including a satellite
	342/357.01	..With position indicating
	342/357.17	...With particular action taken responsive to position
3	455/456.6	(0 OR, 3 XR)
	Class 455 :	TELECOMMUNICATIONS
	455/403	RADIOTELEPHONE SYSTEM
	455/422.1	.Zoned or cellular telephone system
	455/456.1	..Location monitoring
	455/456.6	...At remote station (i.e., mobile station)
3	455/502	(3 OR, 0 XR)
	Class 455 :	TELECOMMUNICATIONS
	455/39	TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
	455/500	.Plural transmitters or receivers (i.e., more than two stations)
	455/501	..Noise, distortion, or singing reduction
	455/502	...Synchronized stations
3	701/1	(0 OR, 3 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
3	701/14	(0 OR, 3 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
	701/3	.Aeronautical vehicle
	701/14	..Flight condition indicating system
3	701/202	(1 OR, 2 XR)
	Class 701 :	DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/201	.Determination of travel data based on the start point and destination point
	701/202	..Route pre-planning
2	128/903	(0 OR, 2 XR)
	Class 128 :	SURGERY
	128/903	RADIO TELEMETRY

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- 2 180/287 (0 OR, 2 XR)  
     Class 180 : MOTOR VEHICLES  
     180/271 WITH MEANS FOR PROMOTING SAFETY OF VEHICLE, IT  
                     OCCUPANT OR LOAD, OR AN EXTERNAL OBJECT  
     180/287 .By preventing unauthorized or unintended  
                     access or use
- 2 244/171 (0 OR, 2 XR)  
     Class 244 : AERONAUTICS  
     244/158R SPACECRAFT  
     244/164 .Attitude control  
     244/171 ..With attitude sensor means
- 2 307/10.1 (0 OR, 2 XR)  
     Class 307 : ELECTRICAL TRANSMISSION OR INTERCONNECTION  
                     SYSTEMS  
     307/9.1 VEHICLE MOUNTED SYSTEMS  
     307/10.1 .Automobile
- 2 340/10.1 (0 OR, 2 XR)  
     Class 340 : COMMUNICATIONS: ELECTRICAL  
     340/825 SELECTIVE  
     340/10.1 .Interrogation response
- 2 340/10.2 (0 OR, 2 XR)  
     Class 340 : COMMUNICATIONS: ELECTRICAL  
     340/825 SELECTIVE  
     340/10.1 .Interrogation response  
     340/10.2 ..Contention avoidance
- 2 340/10.31 (0 OR, 2 XR)  
     Class 340 : COMMUNICATIONS: ELECTRICAL  
     340/825 SELECTIVE  
     340/10.1 .Interrogation response  
     340/10.3 ..Interrogation signal detail  
     340/10.31 ...Individual call
- 2 340/10.41 (0 OR, 2 XR)  
     Class 340 : COMMUNICATIONS: ELECTRICAL  
     340/825 SELECTIVE  
     340/10.1 .Interrogation response  
     340/10.4 ..Response signal detail  
     340/10.41 ...Combination response
- 2 340/436 (0 OR, 2 XR)  
     Class 340 : COMMUNICATIONS: ELECTRICAL  
     340/425.5 LAND VEHICLE ALARMS OR INDICATORS

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- 340/436 .Of collision or contact with external object
- 2 340/5.61 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/825 SELECTIVE  
 340/5.1 .Intelligence comparison for controlling  
 340/5.2 ..Authorization control (e.g., entry into an  
 area)  
 340/5.6 ...Coded record input (e.g., IC card or key)  
 340/5.61 ....Wireless transceiver
- 2 340/573.3 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
 340/540 .Specific condition  
 340/573.1 ..Human or animal  
 340/573.3 ...Domestic animal training, monitoring, or  
 controlling
- 2 340/573.4 (1 OR, 1 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM  
 340/540 .Specific condition  
 340/573.1 ..Human or animal  
 340/573.4 ...House arrest system, wandering, or wrong  
 place
- 2 340/7.21 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/825 SELECTIVE  
 340/825.36 .Having indication or alarm (e.g., location  
 indication)  
 340/7.2 ..Code responsive (i.e., paging)  
 340/7.21 ...Two-way paging
- 2 340/7.43 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/825 SELECTIVE  
 340/825.36 .Having indication or alarm (e.g., location  
 indication)  
 340/7.2 ..Code responsive (i.e., paging)  
 340/7.43 ...Particular message and address format (e.g.  
 POCSAG, FLEX, etc.)
- 2 340/7.5 (0 OR, 2 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL

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340/825           SELECTIVE  
 340/825.36       .Having indication or alarm (e.g., location  
                   indication)  
 340/7.2          ..Code responsive (i.e., paging)  
 340/7.5          ...Distress signal

2   340/903       (1 OR, 1 XR)  
       Class   340 :   COMMUNICATIONS:   ELECTRICAL  
       340/901       EXTERNAL CONDITION VEHICLE-MOUNTED INDICATOR O

R

                  ALARM  
 340/902        .Transmitter in another vehicle (e.g.,  
                   emergency vehicle)  
 340/903        ..Relative distance between vehicles (e.g.,  
                   collision alert)

2   340/933       (0 OR, 2 XR)  
       Class   340 :   COMMUNICATIONS:   ELECTRICAL  
       340/933       VEHICLE DETECTORS

2   340/979       (0 OR, 2 XR)  
       Class   340 :   COMMUNICATIONS:   ELECTRICAL  
       340/945       AIRCRAFT ALARM OR INDICATING SYSTEMS  
       340/971       .Nonalarm flight indicator  
       340/979       ..Heading (includes deviation from desired  
                   course)

2   340/992       (0 OR, 2 XR)  
       Class   340 :   COMMUNICATIONS:   ELECTRICAL  
       340/988       VEHICLE POSITION INDICATION  
       340/989       .At remote location  
       340/992       ..Position indication transmitted at periodic  
                   intervals (e.g., distance travelled)

2   340/993       (0 OR, 2 XR)  
       Class   340 :   COMMUNICATIONS:   ELECTRICAL  
       340/988       VEHICLE POSITION INDICATION  
       340/989       .At remote location  
       340/993       ..Position indication transmitted by local  
                   station to remote location

2   340/995.19    (0 OR, 2 XR)  
       Class   340 :   COMMUNICATIONS:   ELECTRICAL  
       340/988       VEHICLE POSITION INDICATION  
       340/995.1    .Map display  
       340/995.19   ..Route determination and display on map

2   340/995.2     (0 OR, 2 XR)

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Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/995.1 .Map display  
 340/995.19 ..Route determination and display on map  
 340/995.2 ...Intersection turn guidance

2 340/995.21 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/995.1 .Map display  
 340/995.19 ..Route determination and display on map  
 340/995.2 ...Intersection turn guidance  
 340/995.21 ....Off course, route re-search

2 340/995.24 (0 OR, 2 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/995.1 .Map display  
 340/995.24 ..Including landmark information

2 340/995.27 (1 OR, 1 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL  
 340/988 VEHICLE POSITION INDICATION  
 340/995.1 .Map display  
 340/995.27 ..Including particular display feature (e.g.,  
 indication of direction, mileage, road type

, etc.)

2 342/118 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/118 DETERMINING DISTANCE

2 342/29 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/29 AIRCRAFT COLLISION AVOIDANCE SYSTEM (CAS)

2 342/357.05 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
 AND DEVICES  
 342/350 DIRECTIVE  
 342/352 .Including a satellite  
 342/357.01 ..With position indicating  
 342/357.05 ...Using Doppler frequency shift

2 342/363 (1 OR, 1 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS

10829184\_CLSTITLES  
AND DEVICES

342/350 DIRECTIVE

342/361 .Including polarized signal communication  
transmitter or receiver

342/362 ..Receiver only

342/363 ...Circular

2 342/386 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/385 .Beacon or receiver

342/386 ..With transmisson of bearing or position  
determinative signals

2 342/451 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/450 .Position indicating (e.g., triangulation)

342/451 ..By computer

2 342/462 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/450 .Position indicating (e.g., triangulation)

342/462 ..With altitude determination

2 342/465 (0 OR, 2 XR)

Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
AND DEVICES

342/350 DIRECTIVE

342/450 .Position indicating (e.g., triangulation)

342/463 ..Having plural transmitters or receivers

342/465 ...Plural receivers only

2 343/713 (2 OR, 0 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/711 .With vehicle

343/713 ..Supported by vehicle body

2 343/725 (0 OR, 2 XR)

Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS

343/700R ANTENNAS

343/725 .Plural separate diverse type

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2 348/116 (1 OR, 1 XR)  
 Class 348 : TELEVISION  
 348/61 SPECIAL APPLICATIONS  
 348/113 .Navigation  
 348/116 ..Direction finding or location determination

2 361/814 (0 OR, 2 XR)  
 Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES  
 361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE  
 ELECTRICAL COMPONENTS  
 361/679 .For electronic systems and devices  
 361/814 ..Radio type

2 370/316 (2 OR, 0 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/310 COMMUNICATION OVER FREE SPACE  
 370/315 .Repeater  
 370/316 ..Airborne or space satellite repeater

2 370/324 (1 OR, 1 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/310 COMMUNICATION OVER FREE SPACE  
 370/315 .Repeater  
 370/316 ..Airborne or space satellite repeater  
 370/319 ...Multiple access (e.g., FDMA)  
 370/321 ....Time division (TDMA)  
 370/324 .....Synchronization

2 370/335 (0 OR, 2 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/310 COMMUNICATION OVER FREE SPACE  
 370/328 .Having a plurality of contiguous regions  
 served by respective fixed stations  
 370/329 ..Channel assignment  
 370/335 ...Combining or distributing information via  
 code word channels using multiple access te  
 chniques (e.g.,  
 CDMA)

2 370/346 (2 OR, 0 XR)  
 Class 370 : MULTIPLEX COMMUNICATIONS  
 370/310 COMMUNICATION OVER FREE SPACE  
 370/345 .Combining or distributing information via tim  
 e  
 channels  
 370/346 ..Polling

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2 375/376 (1 OR, 1 XR)  
 Class 375 : PULSE OR DIGITAL COMMUNICATIONS  
 375/354 SYNCHRONIZERS  
 375/371 .Phase displacement, slip or jitter correction  
  
 375/373 ..Phase locking  
 375/376 ...Phase locked loop

2 379/45 (0 OR, 2 XR)  
 Class 379 : TELEPHONIC COMMUNICATIONS  
 379/37 EMERGENCY OR ALARM COMMUNICATIONS (E.G.,  
 WATCHMAN'S CIRCUIT)  
 379/45 .Central office responsive to emergency call o  
 r  
 alarm (e.g., "911", operator position displ  
 ay)

2 380/258 (1 OR, 1 XR)  
 Class 380 : CRYPTOGRAPHY  
 380/255 COMMUNICATION SYSTEM USING CRYPTOGRAPHY  
 380/258 .Position dependent or authenticating

2 396/310 (1 OR, 1 XR)  
 Class 396 : PHOTOGRAPHY  
 396/310 WITH DATA RECORDING

2 455/11.1 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,  
 RETRANSMISSION OF SAME INFORMATION)  
 455/11.1 .Portable or mobile repeater

2 455/13.2 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/7 CARRIER WAVE REPEATER OR RELAY SYSTEM (I.E.,  
 RETRANSMISSION OF SAME INFORMATION)  
 455/11.1 .Portable or mobile repeater  
 455/12.1 ..Space satellite  
 455/13.2 ...With synchronizing of satellites or system

2 455/439 (0 OR, 2 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/403 RADIOTELEPHONE SYSTEM  
 455/422.1 .Zoned or cellular telephone system  
 455/436 ..Handoff  
 455/439 ...Handoff initiated by another source (e.g.,

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target, user initiated, mobile switching center (MSC), or mobile telephone switching office (MTSO), etc.)

2 455/445 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 .Zoned or cellular telephone system

455/445 ..Call routing (e.g., to prevent backhaul, routing efficiency, least cost, or alternate routing)

2 455/454 (1 OR, 1 XR)

Class 455 : TELECOMMUNICATIONS

455/403 RADIOTELEPHONE SYSTEM

455/422.1 .Zoned or cellular telephone system

455/450 ..Channel allocation

455/454 ...Spectrum sharing for different type of system (e.g., point-to-point microwave, television, etc.)

2 455/522 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/39 TRANSMITTER AND RECEIVER AT SEPARATE STATIONS

455/500 .Plural transmitters or receivers (i.e., more than two stations)

455/507 ..Central station (e.g., master, etc.)

455/517 ...To or from mobile station

455/522 ....Transmission power control technique

2 455/560 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCIVER)

455/550.1 .Radiotelephone equipment detail

455/560 ..Switching unit detail (e.g., mobile telephone

switching office (MTSO), base station controller (BSC), etc.)

2 455/563 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

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TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail  
455/563 ..Having voice recognition or synthesization

2 455/575.9 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail  
455/575.1 ..Housing or support  
455/575.9 ...In vehicle

2 607/30 (1 OR, 1 XR)

Class 607 : SURGERY: LIGHT, THERMAL, AND ELECTRICAL  
APPLICATION  
607/1 LIGHT, THERMAL, AND ELECTRICAL APPLICATION  
607/2 .Electrical therapeutic systems  
607/9 ..Heart rate regulating (e.g., pacing)  
607/30 ...Remotely changing, (e.g., programming,  
pacer) parameters or operation

2 700/3 (0 OR, 2 XR)

Class 700 : DATA PROCESSING: GENERIC CONTROL SYSTEMS OR  
SPECIFIC APPLICATIONS  
700/1 GENERIC CONTROL SYSTEM, APPARATUS OR PROCESS  
700/2 .Plural processors  
700/3 ..Master-slave

2 701/120 (0 OR, 2 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION  
701/120 .Traffic analysis or control of aircraft

2 701/217 (0 OR, 2 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/200 NAVIGATION  
701/207 .Employing position determining equipment  
701/217 ..Using dead-reckoning apparatus

2 701/221 (0 OR, 2 XR)

Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/200 NAVIGATION

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701/207 .Employing position determining equipment  
701/220 ..Using inertial sensor  
701/221 ...With correction by noninertial sensor

2 701/222 (0 OR, 2 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/200 NAVIGATION  
701/207 .Employing position determining equipment  
701/222 ..Using star tracker

2 701/24 (0 OR, 2 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION  
701/23 .Automatic route guidance vehicle  
701/24 ..On-board computer interact with a host  
computer

2 701/29 (0 OR, 2 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/1 VEHICLE CONTROL, GUIDANCE, OPERATION, OR  
INDICATION  
701/29 .Vehicle diagnosis or maintenance indication

2 702/166 (2 OR, 0 XR)  
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR  
TESTING  
702/127 MEASUREMENT SYSTEM  
702/155 .Dimensional determination  
702/166 ..Height or depth

2 704/260 (2 OR, 0 XR)  
Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,  
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO  
COMPRESSION/DECOMPRESSION  
704/200 SPEECH SIGNAL PROCESSING  
704/258 .Synthesis  
704/260 ..Image to speech

2 704/270 (0 OR, 2 XR)  
Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,  
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO  
COMPRESSION/DECOMPRESSION

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704/200	SPEECH SIGNAL PROCESSING
704/270	.Application

above 5  
abstract 1  
abstracts 1  
accompanying 2  
accomplish 1  
according 10  
accordingly 3  
accurate 4  
achieved 3  
ad 2  
adapted 1  
additionally 4  
additions 1  
advantages 1  
ahrough 1  
allow 3  
also 3  
alternately 3  
although 1  
amplification 1  
amplified 3  
amplifier 11  
amplifying 4  
an 20  
analog 2  
analyzes 2  
analyzing 2  
and 132  
antenna 14  
applied 2  
applies 1  
appreciate 1  
are 11  
arise 2  
arises 2  
art 3  
as 7  
at 3  
attempts 1  
audible 9  
audibly 5  
audio 2  
back 5  
background 1  
battery 9  
be 25  
been 4  
being 2

below 1  
 block 5  
 body 1  
 brief 1  
 but 4  
 by 15  
 can 11  
 cannot 2  
 capable 1  
 case 4  
 cell 2  
 central 20  
 centrdl 1  
 circuit 1  
 claims 1  
 clearly 1  
 collision 3  
 combine 1  
 combined 32  
 communicate 4  
 communicating 3  
 communication 13  
 components 3  
 composed 1  
 computer 4  
 conjunction 1  
 connect 1  
 considerably 1  
 constituting 1  
 constr 1  
 constructed 10  
 construction 8  
 consumption 5  
 control 5  
 controlling 5  
 controls 4  
 conventional 7  
 converted 2  
 converter 3  
 converting 2  
 converts 1  
 coordinates 3  
 cted 2  
 cut 3  
 dashboard 1  
 data 48  
 demodulator 3  
 departing 1

described 2  
description 4  
designate 1  
designates 1  
det 1  
detail 2  
detailed 2  
detected 21  
detecting 14  
detection 3  
detector 32  
detects 2  
developed 1  
devices 3  
diagram 6  
difference 12  
different 3  
difficult 3  
digital 5  
diodes 1  
directionality 1  
disadvantageous 1  
disclosed 2  
display 38  
displaying 3  
displays 2  
downloaded 2  
downloading 4  
drawings 4  
drive 7  
driver 21  
drives 2  
driving 2  
due 1  
dyn 1  
each 5  
easily 1  
easy 3  
embodiment 1  
embodiments 2  
emitting 1  
enable 4  
enables 1  
enabling 2  
engine 24  
ensure 1  
esent 1  
europe 1

every 1  
excessive 1  
extracts 1  
fashion 1  
fastening 1  
faulty 1  
features 1  
field 1  
fig 8  
filter 5  
filtered 1  
first 23  
flickering 2  
following 1  
for 65  
frequencies 3  
frequency 19  
from 22  
front 4  
further 5  
furthermore 3  
general 1  
generalized 1  
generally 3  
generated 3  
generator 2  
geperally 1  
ghz 8  
global 4  
gps 44  
guarantee 1  
has 3  
have 3  
having 3  
high 3  
horn 14  
however 4  
ic 1  
idformation 1  
illustrative 1  
in 35  
include 3  
included 2  
includes 12  
including 3  
increased 1  
incurred 4  
indicate 3

indication 9  
inform 2  
information 69  
informing 3  
informmition 1  
informntion 1  
infprmsng 1  
inkide 1  
input 2  
inside 2  
install 1  
installation 5  
integrated 5  
interference 1  
internal 3  
into 5  
invention 19  
is 52  
it 3  
keeping 1  
kinds 10  
large 1  
laser 44  
le 1  
leds 2  
light 1  
limited 1  
line 1  
lines 2  
local 15  
located 2  
location 10  
lost 3  
low 1  
made 2  
maintenance 1  
may 5  
means 5  
meanwhile 3  
memory 6  
method 1  
mhz 7  
mic 1  
microwaves 1  
mind 1  
miniaeurization 1  
miniaturization 2  
minimized 4

mixed 2  
mixer 11  
mixing 4  
mo 1  
modifications 1  
module 44  
modules 1  
more 3  
mounted 1  
mounting 3  
moving 10  
ms 1  
needs 1  
not 4  
now 1  
numeral 1  
numerals 1  
object 2  
objects 1  
occur 1  
occurring 1  
of 137  
off 3  
on 5  
one 1  
only 3  
operated 3  
operates 1  
operating 3  
operation 8  
operations 6  
or 14  
order 1  
oscillation 2  
oscillations 9  
oscillator 8  
oscillators 7  
other 7  
output 12  
outputs 2  
outputting 9  
outside 3  
page 17  
part 1  
particular 1  
particularly 2  
passed 2  
passing 3

placed 5  
 portable 2  
 positioning 4  
 possible 1  
 power 15  
 preferred 2  
 prepare 1  
 present 14  
 prevent 4  
 prevented 1  
 prior 1  
 problem 3  
 problems 3  
 processing 12  
 processor 21  
 produce 1  
 produces 1  
 producing 4  
 provide 7  
 provided 1  
 provides 2  
 purposes 1  
 radar 32  
 re 1  
 receive 2  
 received 22  
 receiver 9  
 receiving 45  
 reduced 1  
 reference 3  
 related 8  
 relates 2  
 reliability 1  
 represented 1  
 required 1  
 restricted 1  
 restricting 2  
 restriction 1  
 result 1  
 road 1  
 safe 1  
 safely 7  
 safety 1  
 same 2  
 satellite 3  
 schematically 4  
 school 1  
 scope 1

second 17  
segment 2  
selectively 2  
separated 3  
serial 7  
seven 2  
should 1  
showing 7  
shown 2  
signal 70  
signals 24  
similar 1  
single 1  
signal 1  
size 2  
skilled 1  
smaller 1  
so 13  
solar 2  
solve 1  
solved 1  
space 2  
speed 9  
spirit 1  
still 1  
stopped 1  
stored 2  
storing 3  
substitutions 1  
such 4  
summary 1  
supplied 2  
supplies 1  
supply 1  
supplying 1  
sweep 2  
switch 1  
switched 2  
switches 1  
switching 6  
system 4  
taken 1  
temporarily 4  
than 1  
that 37  
the 386  
there 1  
therefrom 1

thereof 8  
therethrough 2  
third 8  
this 3  
those 1  
thp 1  
through 40  
throughout 1  
through 1  
thus 3  
time 4  
to 109  
traffic 15  
transmission 7  
transmits 2  
transmitted 7  
transmitting 2  
ultra 1  
under 1  
understood 1  
unit 90  
up 5  
use 1  
used 6  
user 4  
uses 2  
using 11  
various 12  
vehicle 20  
vehicles 1  
view 1  
visual 10  
visually 4  
voltage 3  
voltages 2  
way 3  
when 4  
which 10  
while 1  
whose 1  
will 2  
wire 1  
wireless 6  
wirelessly 9  
with 19  
without 1  
work 1  
zones 3